



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2000135419 A**(43) Date of publication of application: **16.05.00**

(51) Int. Cl.

B01D 53/94**B01J 29/068****B01J 29/072****B01J 29/44****B01J 29/80****F01N 3/08****F01N 3/20****F01N 3/24**(21) Application number: **10309654**(22) Date of filing: **30.10.98**(71) Applicant: **NISSAN MOTOR CO LTD**(72) Inventor:
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ITO JUNJI(54) **EXHAUST GAS PURIFYING SYSTEM**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an exhaust gas purifying device having an excellent purifying performance to a lean-burn exhaust gas concerned in low exhaust gas temp. and low HC/NO_x ratio condition and capable of improving an NO_x reduction purification efficiency.

SOLUTION: In a system using a catalyst for purifying oxygen-excess exhaust gas, an NO_x adsorptive reducing catalyst capable of adsorbing NO_x and also

capable of reducing the NO_x at an NO₂ forming temp. zone in which the reaction expressed by the following formula $2\text{NO} + \text{O}_2 \rightarrow 2\text{NO}_2$ proceeds is used, and the concn. of hydrocarbons and/or carbon monoxide at the inlet of the NO_x adsorptive reducing catalyst is varied at the NO₂ forming temp. zone. A hydrocarbon adsorbable/releasable material is arranged on the upstream side of the exhaust gas passage and an NO_x adsorbable/reducible material is arranged on its downstream side preferably.

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